

Hector International Airport

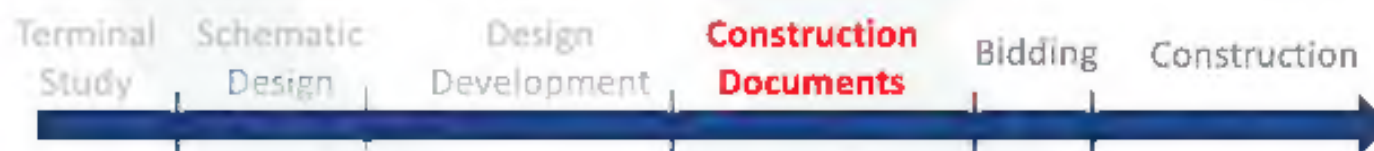
Fargo

Mead
& Hunt

**TERMINAL RENOVATION AND EXPANSION
DESIGN DEVELOPMENT PROGRESS UPDATE
AUGUST 15, 2023**

DESIGN AND CONSTRUCTION PROGRESS UPDATE

- ✈ COMPLETED DESIGN DEVELOPMENT PHASE
- ✈ ENTERING THE FINAL CONSTRUCTION DOCUMENTS PHASE
- ✈ BROUGHT ON BOARD A CONSTRUCTION MANAGER
- ✈ STILL ON TARGET TO BEGIN CONSTRUCTION STARTING SPRING 2024



TODAY....

- FUNDING/FINANCIAL UPDATE
- DESIGN UPDATE-EXTERIOR
- DESIGN UPDATE-INTERIOR
- NEXT STEPS

FUNDING RECAP/UPDATE

Mead
& Hunt



Fargo – Sustained Population Growth



Demographics

Fargo is the central city in the vibrant and growing Fargo-Moorhead Metropolitan Area. The metro area is bisected by the Red River of the North, which is also the boundary between North Dakota and Minnesota. This community serves as a regional center of education, commerce and health care.

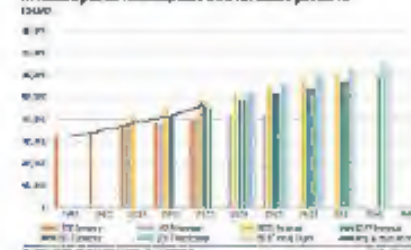
| Year | Fargo | Growth | Cass County | Growth | Metro Area | Growth | State | Growth |
|------|---------|--------|-------------|--------|------------|--------|---------|--------|
| 1960 | 47,000 | N/A | 66,947 | N/A | 106,027 | N/A | 632,442 | N/A |
| 1970 | 53,365 | 14% | 73,653 | 10% | 120,261 | 13% | 617,792 | -2% |
| 1980 | 61,383 | 15% | 88,247 | 20% | 137,374 | 14% | 652,717 | 6% |
| 1990 | 74,084 | 21% | 102,874 | 17% | 153,296 | 11% | 638,800 | -2% |
| 2000 | 90,599 | 22% | 123,138 | 20% | 175,367 | 14% | 641,200 | 1% |
| 2010 | 105,549 | 17% | 149,778 | 22% | 208,777 | 19% | 672,591 | 5% |
| 2020 | 125,853 | 19% | 183,904 | 23% | 249,843 | 22% | 765,309 | 14% |



Fargo-Moorhead population projected to grow 50 percent by 2045

As of 2020, the population in the Fargo-Moorhead area is projected to grow more than 50 percent by 2045, according to a new study by the Fargo-Moorhead Area Council of Governments. The study is the first of its kind in the region and is the first to include data from the Fargo-Moorhead area.

M Metro politics statistical data to reflect population

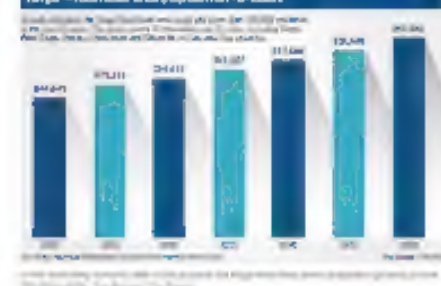


Source: HECOR

Fargo-Moorhead area projected to grow by at least 100,000 people by 2050, Metro COG says

The Fargo-Moorhead Metropolitan Council of Governments recently released a demographic study of the area.

Fargo-Moorhead area population forecast



550-ton crane wraps up work at Bell Bank complex downtown

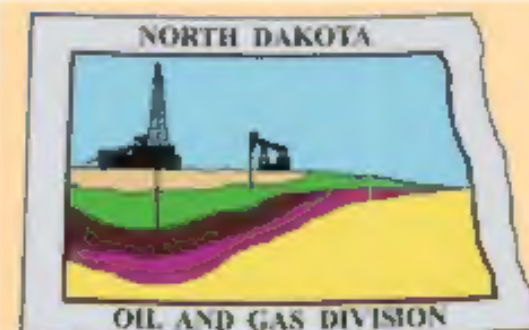
Construction workers will likely be seen tearing down the old Bell Bank building in the city center.



Fargo – Strong State Economy (Oil/AG/Tech)



| North Dakota's Top 5 agriculture exports, estimates, 2021 | Exports rank among States | Exports million dollars |
|--|---------------------------------|----------------------------|
| Exports | | |
| 1. Soybeans | 9 | 1,183.2 |
| 2. Wheat | 2 | 1,077.7 |
| 3. Other oilseeds and products 4/ | 1 | 714.6 |
| 4. Corn | 13 | 339.8 |
| 5. Soybean meal | 8 | 242.4 |
| Total exports | 11 | 4,950.2 |



More information on agricultural exports in North Dakota

- [State Agricultural Trade Data](#)
- [U.S. Agricultural Trade Topic Page](#)
- 1/ Includes other nonpoultry meats, animal fat, live farm animals, and other animal parts.
- 2/ Includes turkey meat, eggs, and other fowl products
- 3/ Includes processed feeds, fodder, barley, oats, rye, and sorghum.
- 4/ Includes peanuts (oilstock), other oil crops, corn meal, other oilcake and meal, protein substances, bran and residues.



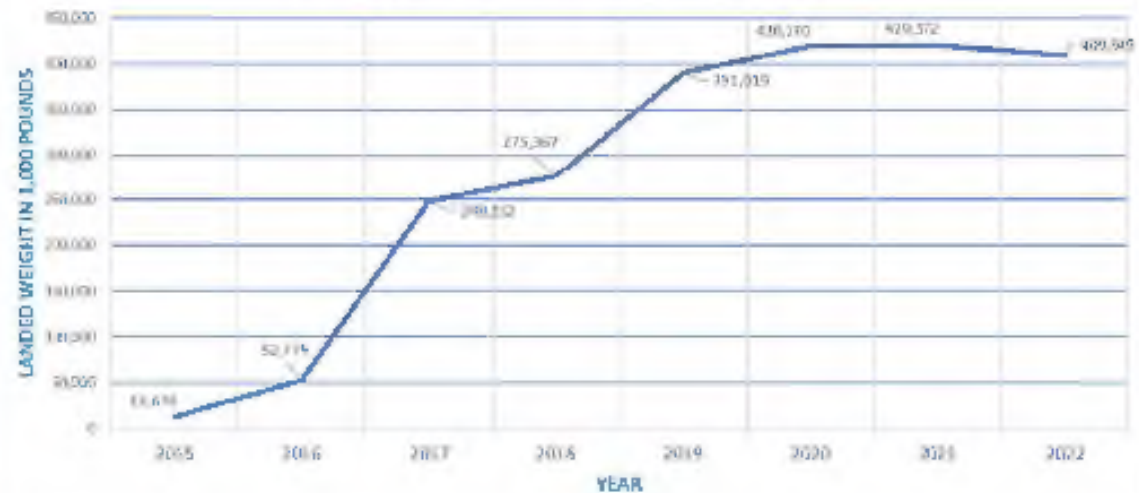
Oil Production by State 2023

| | |
|--------------|-----------|
| Texas | 1,762,009 |
| North Dakota | 431,241 |
| New Mexico | 379,228 |
| Colorado | 165,093 |
| Alaska | 163,852 |
| California | 144,349 |
| Wyoming | 89,002 |
| Kansas | 37,807 |
| Louisiana | 34,861 |

Fargo - Cargo



Air Cargo Annual Total Landed Weight



Source:

Calendar Year 2021 All-Cargo Landed Weight

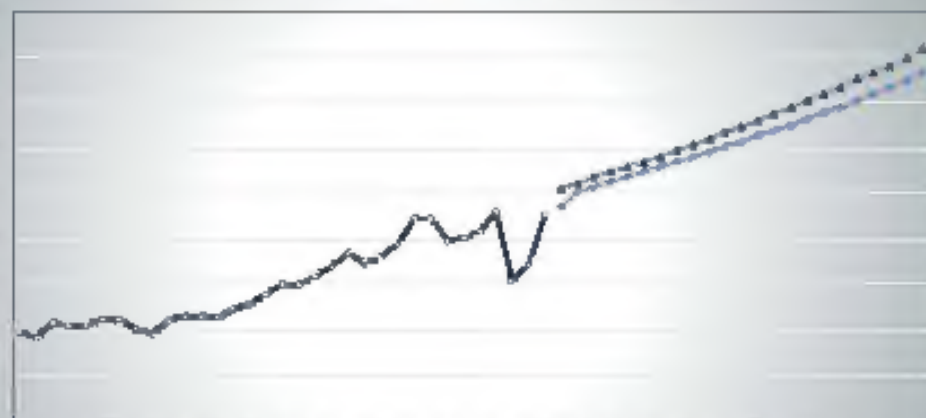
8/30/2022

| Rank | City | Airport Name | Svc Lvl | Hub | 2021 Landed Weight (lbs.) | 2020 Landed Weight (lbs.) | % Change |
|------|-------|----------------------|------------|-----|------------------------------|------------------------------|----------|
| 75 | Fargo | Hector International | P | S | 420,371,732 | 420,270,416 | 0.02% |



FAR Passenger Enplanements

Fargo International Airport (FAR) Enplanements



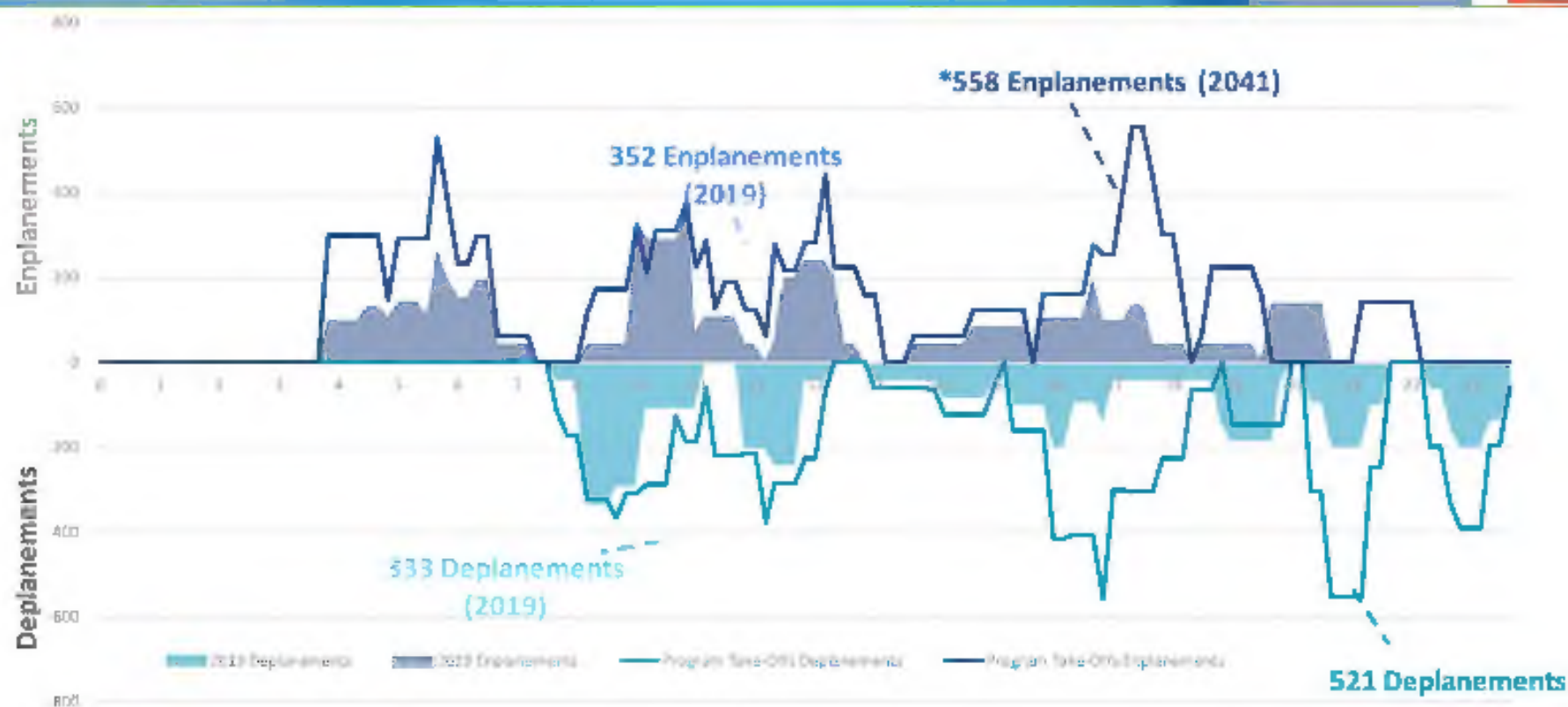
FAR
Unprecedented
Growth

34.9% Growth from
2009-2019

2022 Airport has
recovered from
Pandemic.



FAR Peak Hour – Enplanements/Deplanements



* The time of day which peaking occurs at FAR vary throughout the year. The time of day of the peak hour in the spring may vary from the time of day of the peak hour in the summer, however, the number of enplanements/deplanements should be around the same.

Increased Demand



Destinations

Existing - 11 Anticipated - 4



Existing Airlines

American Airlines 

 **allegiant**

 **DELTA**

FRONTIER
AIRLINES

United
Airlines 

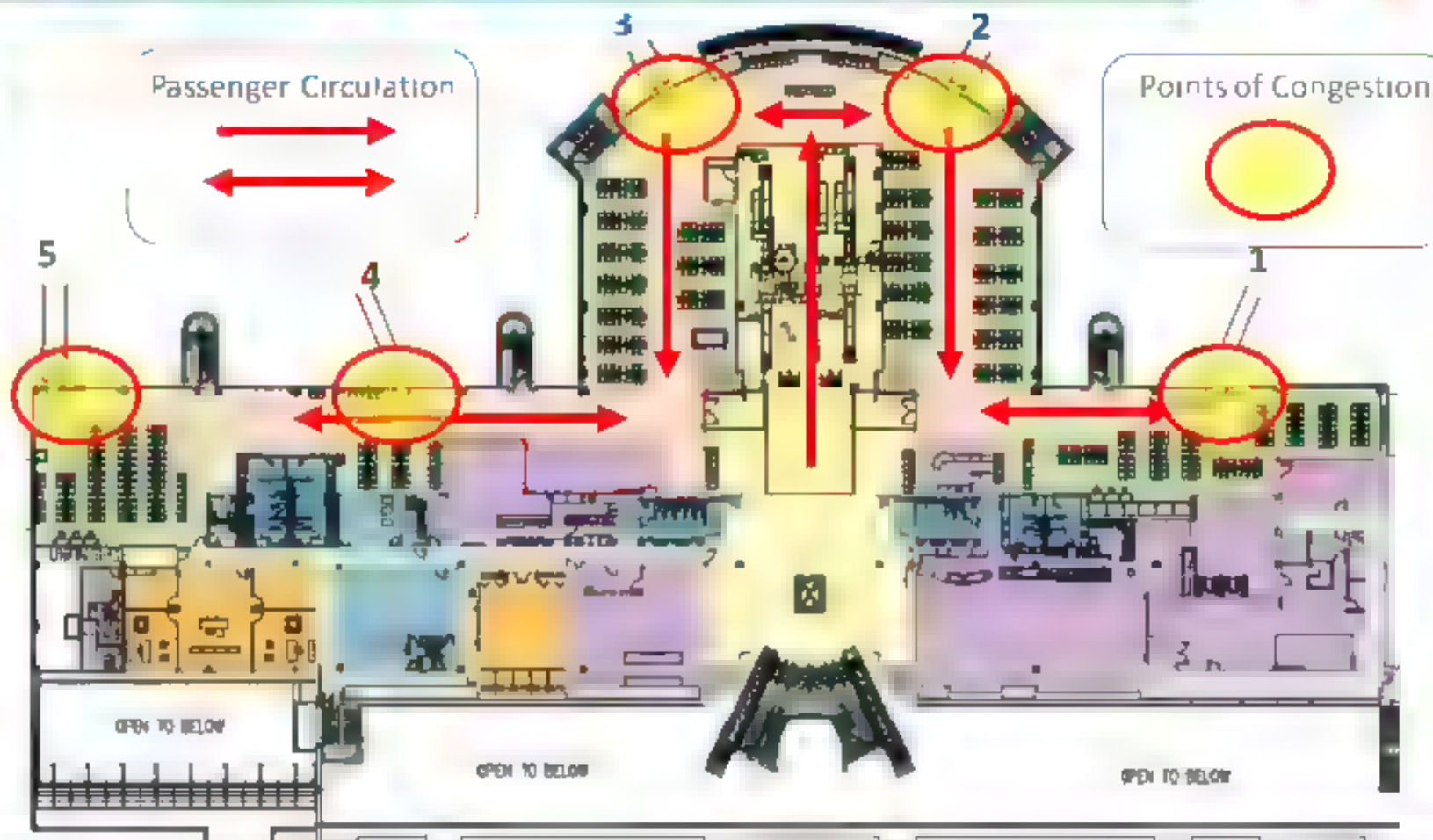
Anticipated Airlines

 **sun country airlines**

The Issue — Circulation



- Security Screening Checkpoint
- TSA Offices
- Public Restrooms
- Non-Public Restrooms
- Departure Lounge
- Concessions
- Public Circulation
- Non-Public Circulation
- Secure Circulation
- Vertical Circulation
- Airport Administrative
- Airport Support Facilities
- Building Systems



- **Terminal Capacity –**
 - (TSA Checkpoint, Holdrooms, Circulation)
- **Aircraft Gates**
- **Baggage Makeup**

The Issue – Terminal Circulation



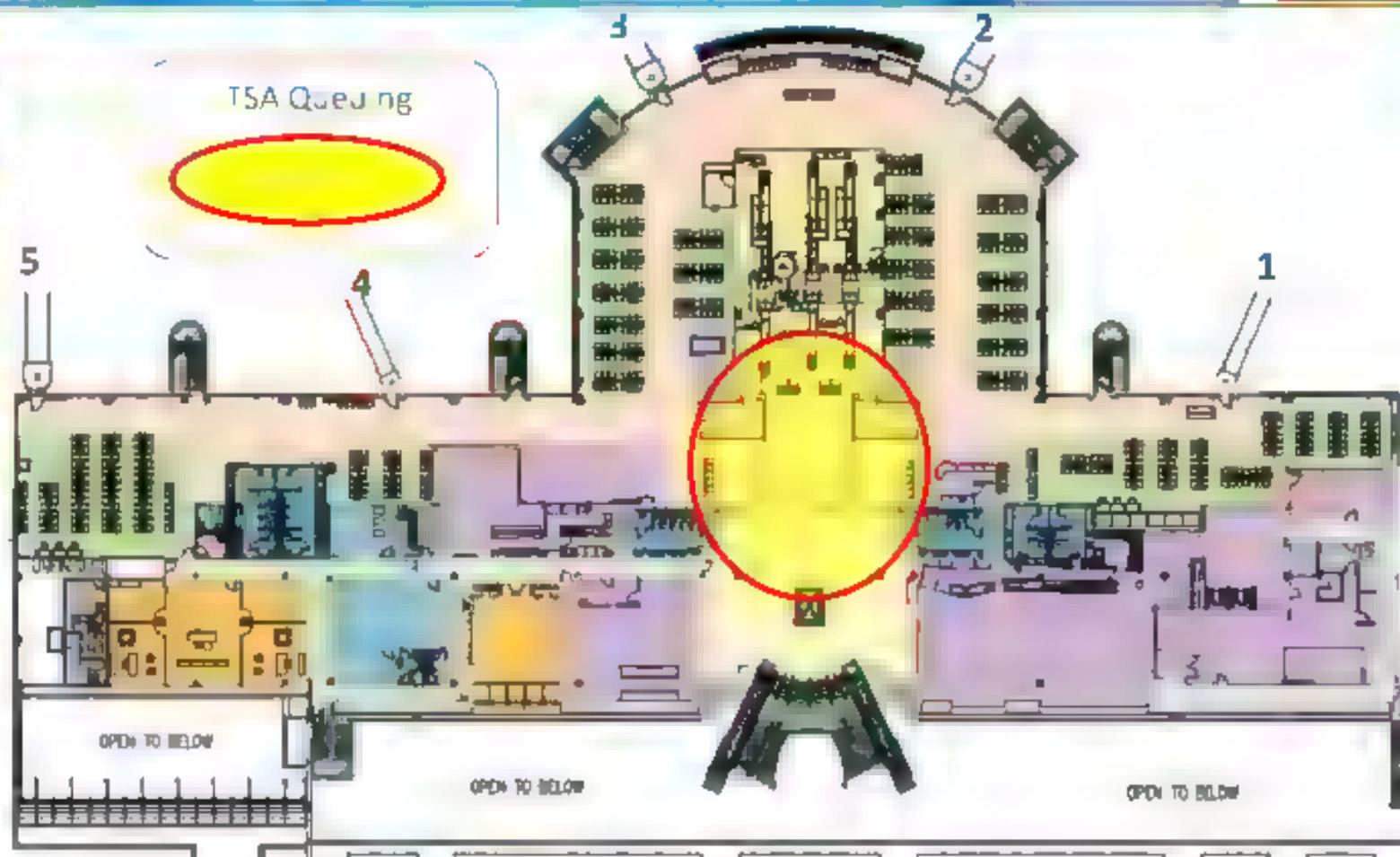
Passenger Circulation



The Issue – TSA Queuing



- Security Screening Checkpoint
- TSA Offices
- Public Restrooms
- Non-Public Restrooms
- Departure Lounge
- Concessions
- Public Circulation
- Non-Public Circulation
- Secure Circulation
- Vertical Circulation
- Airport Administrative
- Airport Support Facilities
- Building Systems



The Issue – TSA Queuing



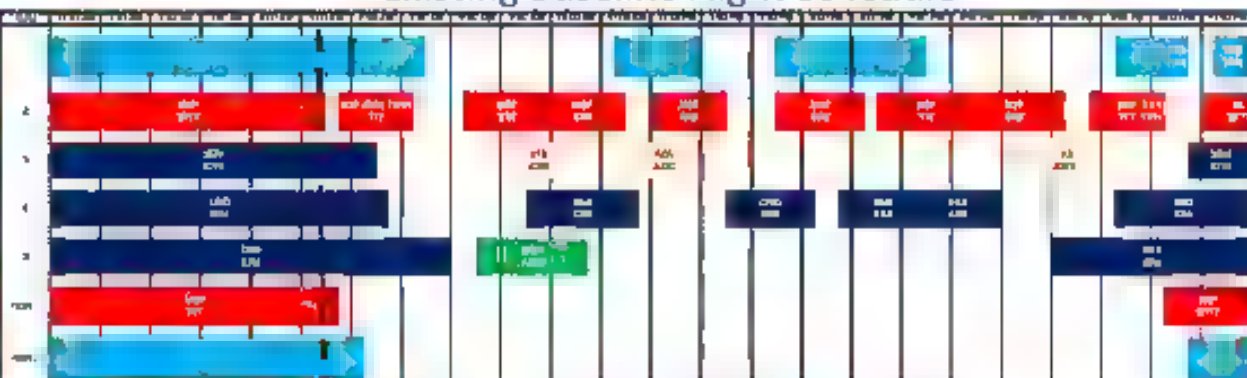
TSA Checkpoint Queuing



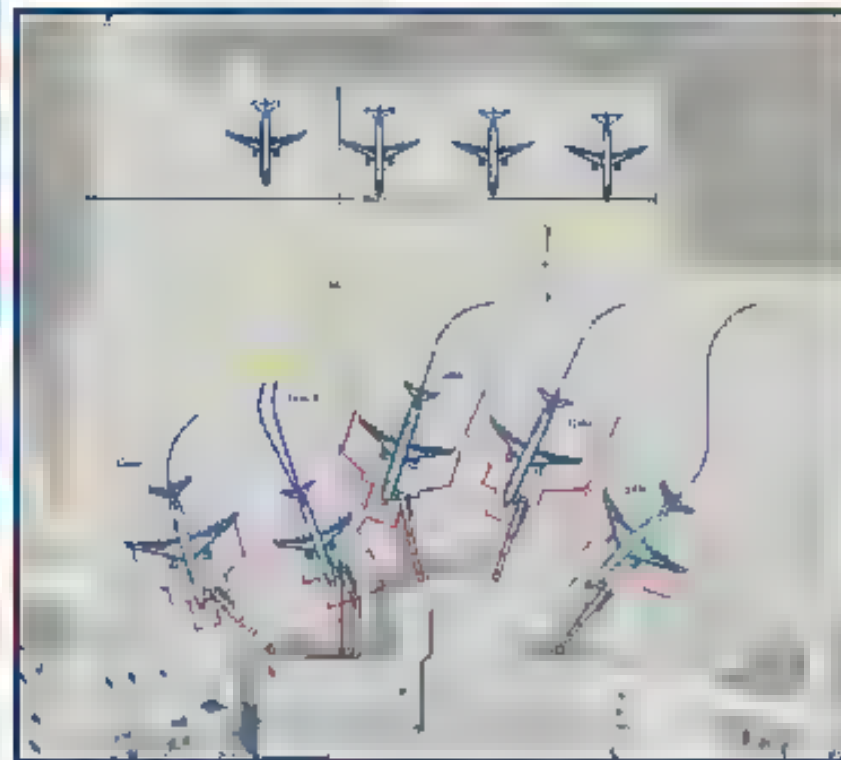
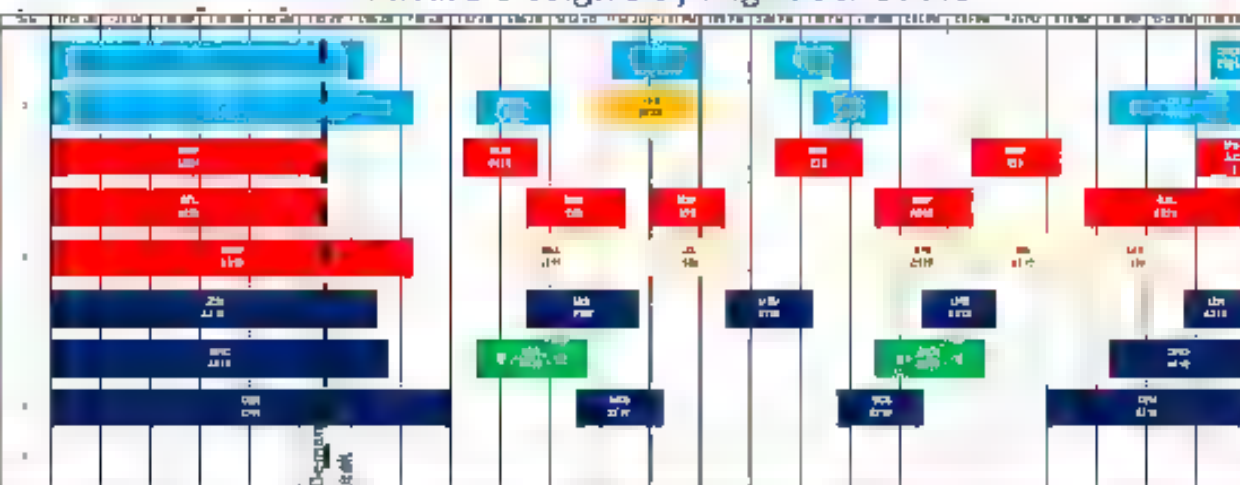
The Issue – Congestion Holdrooms/Gates



Existing Baseline Flight Schedule



Future Design Day Flight Schedule



The Issue — Concourse (Holdrooms)

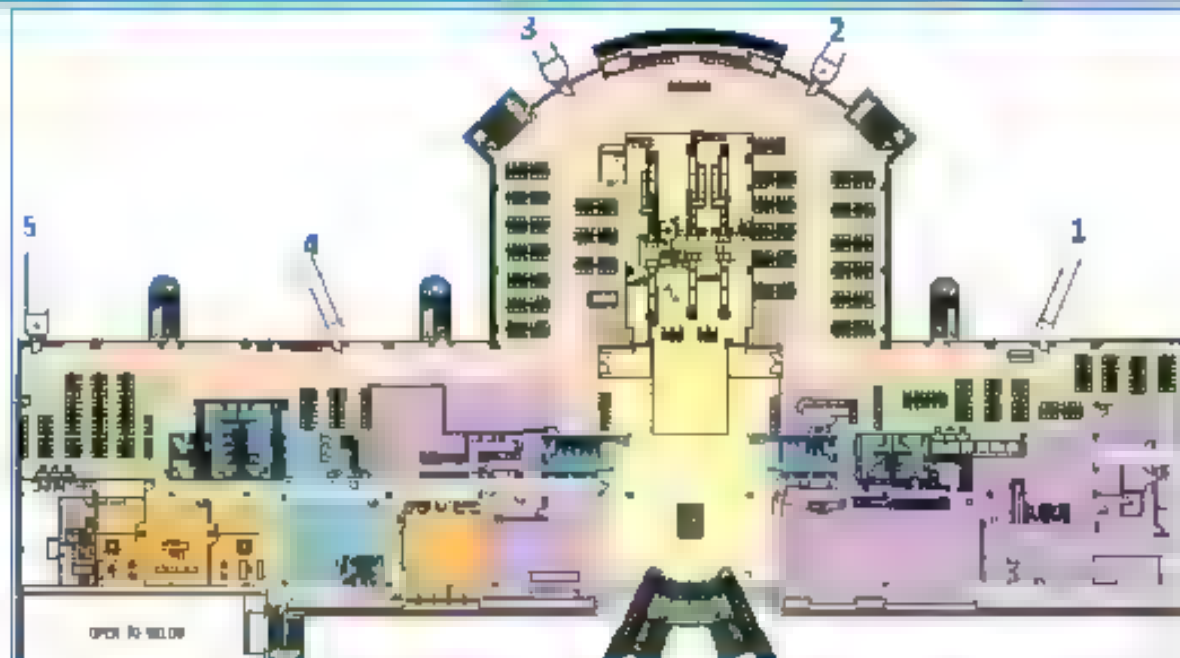


Mead&Hunt

The Issue – Additional Requirements



- Security Screening Checkpoint
- TSA Offices
- Public Restrooms
- Non-Public Restrooms
- Departure Lounge
- Concessions
- Public Circulation
- Non-Public Circulation
- Secure Circulation
- Vertical Circulation
- Airport Administrative
- Airport Support Facilities
- Building Systems



| | Units | Existing | Terminal Requirements | | | | |
|------------------------------|-------|----------|-----------------------|--------|--------|--------|--------|
| | | | 2021 | 2026 | 2031 | 2036 | 2041 |
| Gates, Boarding Bridges | ea. | 5 | 9 | 9 | 9 | 9 | 9 |
| Departure Lounge (Holdrooms) | sf | 2,562 | 21,562 | 21,562 | 21,562 | 21,562 | 21,562 |
| Family Restrooms | sf | 71 | 280 | 280 | 280 | 280 | 280 |
| Nursing Station | sf | 31 | 80 | 80 | 80 | 80 | 80 |
| Service Animal Relief Area | sf | 0 | 200 | 200 | 200 | 200 | 200 |

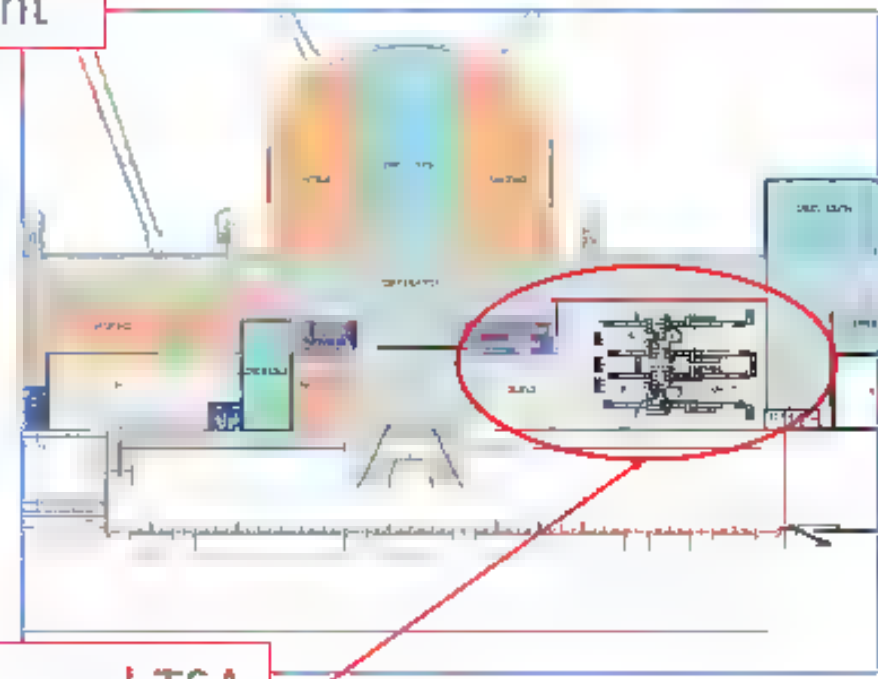
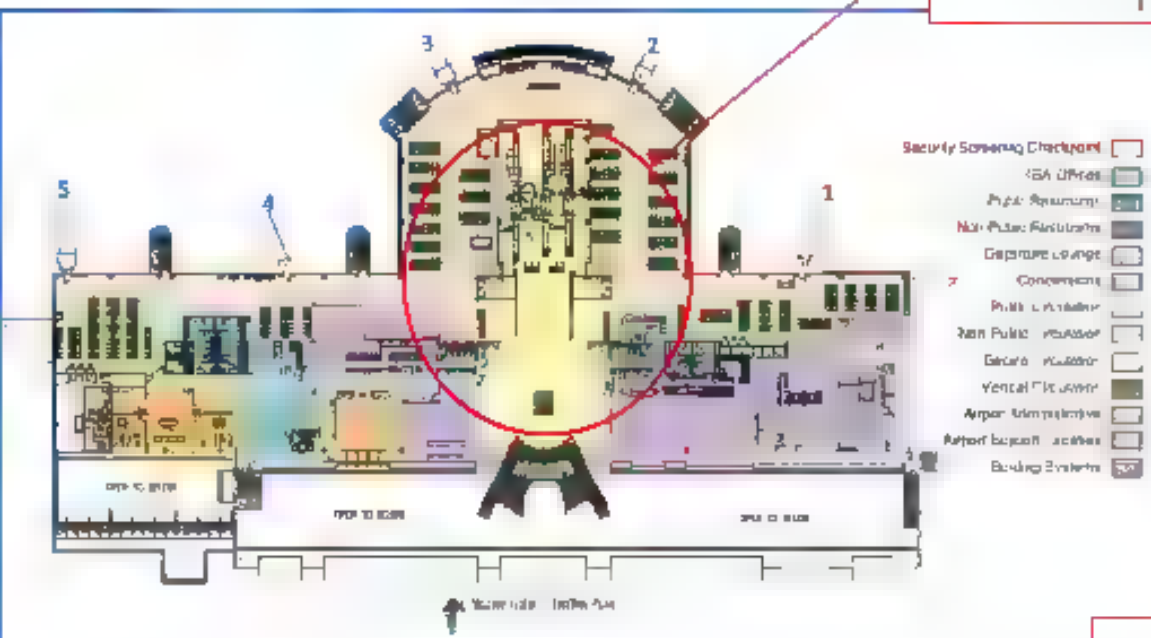
The Solution – TSA Checkpoint



Existing

Existing TSA Checkpoint

Proposed



Proposed TSA Checkpoint

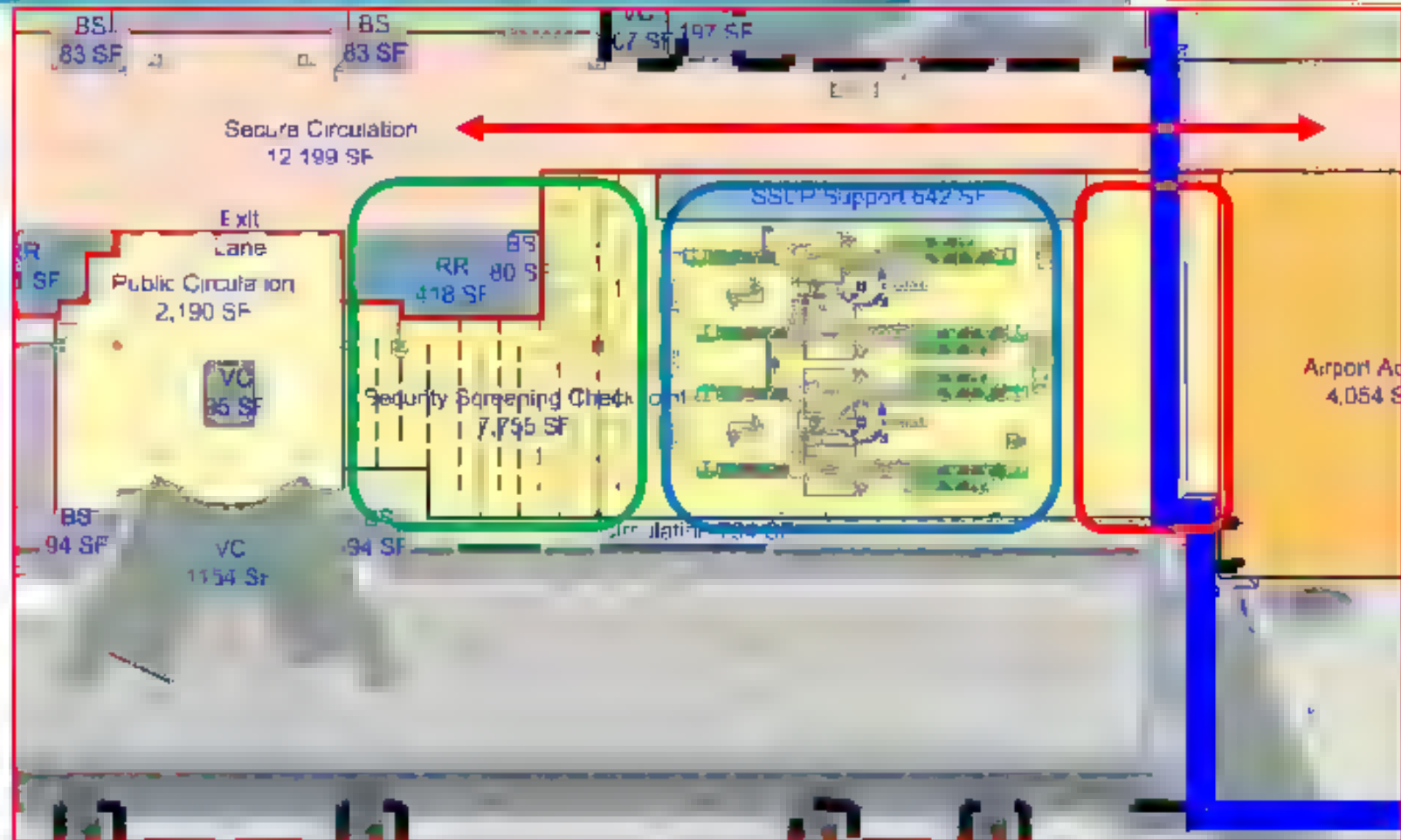
The Solution – TSA Checkpoint



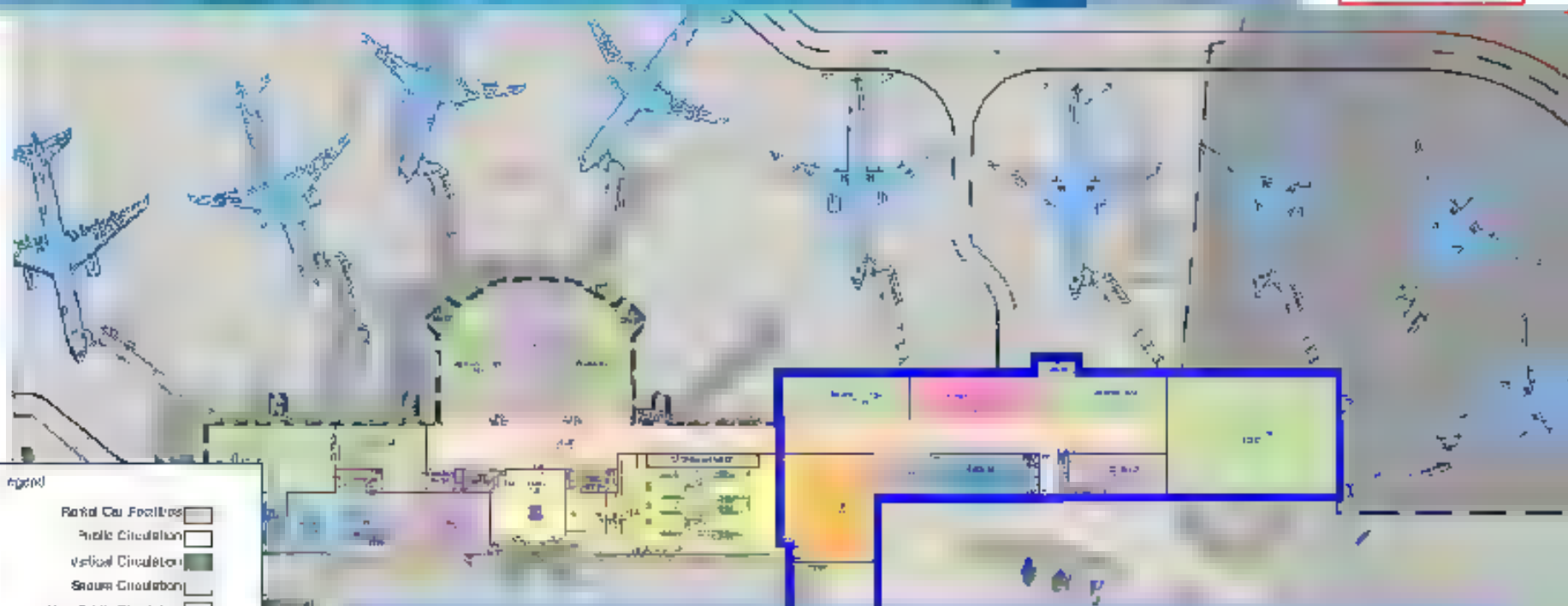
→ **Passenger Queueing :**
Clear of stairs,
escalators, and
walkways. Capacity

→ **Security Lanes:**
Expandable to 4 lanes to
accommodate future
demand

→ **Recompose Area:**
Recompose doesn't
conflict with circulation
areas



The Solutions – Concessions Holdrooms/Gates



Legend

| | |
|------------------------|-----------------------------|
| Baggage Screening | Rental Car Facilities |
| TSA Offices | Public Circulation |
| Outbound Baggage | Vertical Circulation |
| Inbound Baggage | Secure Circulation |
| Baggage Claim | Non-Public Circulation |
| Public Restrooms | Airport Support Facilities |
| Non-Public Restrooms | Airport Administration |
| Airline Ticket Offices | Building Systems |
| Traveling Area Queuing | Gate Security Closures |
| Traveling Area | Secure/Non-Secure Boundary |
| Concessions | Proposed Terminal Expansion |
| U.S. Customs | Existing Terminal |

→ Concessions, holdrooms, SARA, Family RR, Mother's Room

→

→

→

The Solutions — Concourse | Holdroom | Gates



Mead&Hunt

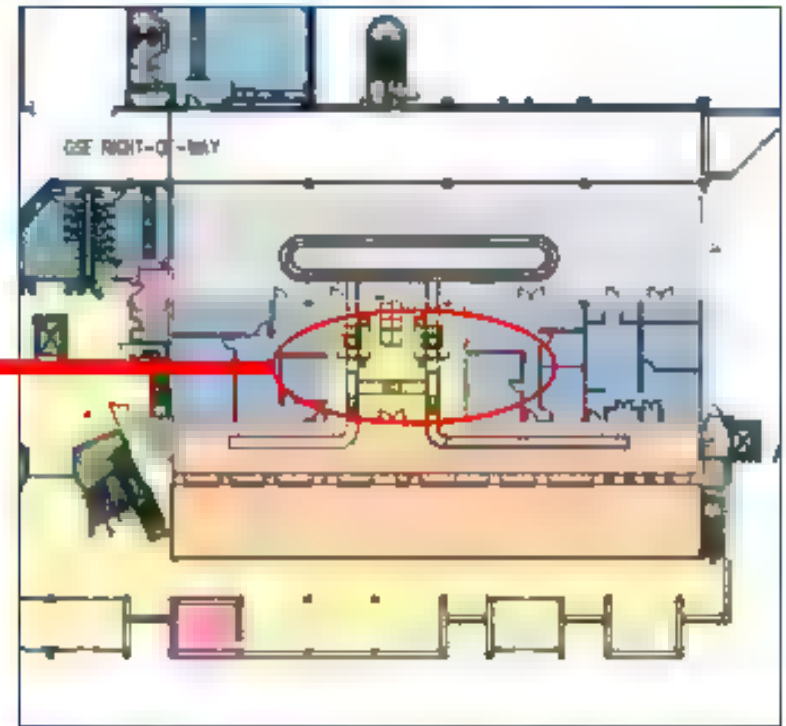
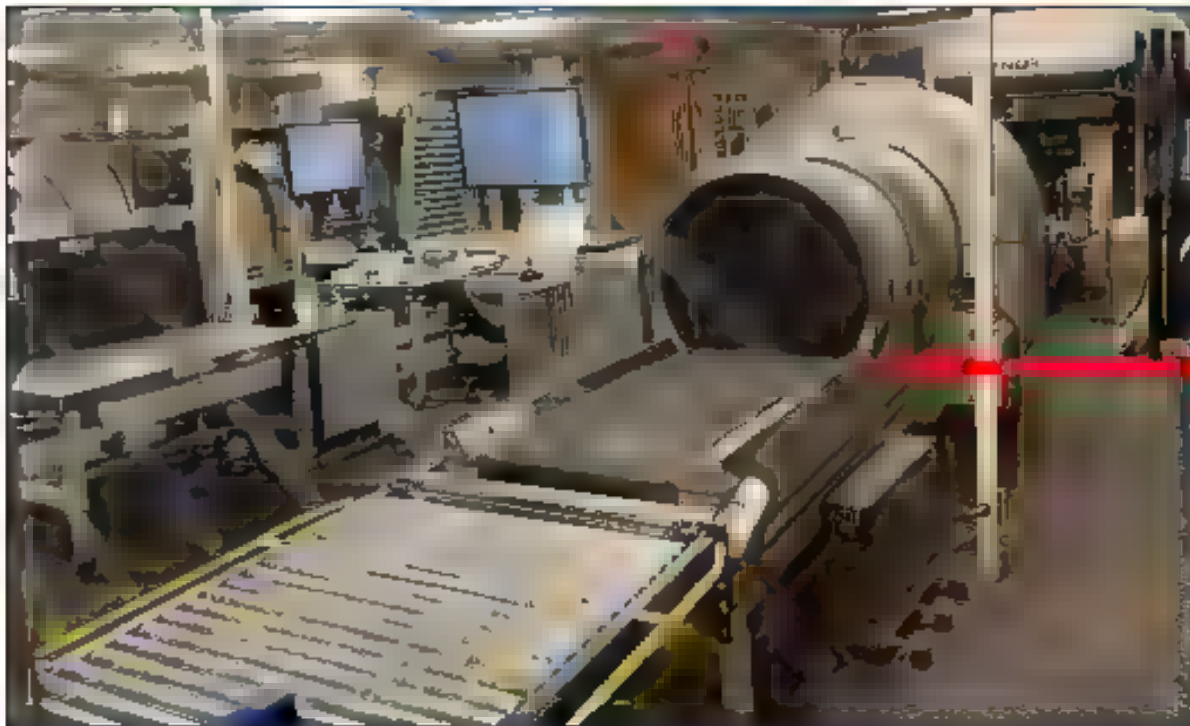


Figure 2-4. Lower Level Flood Plan

The Issue – Baggage Makeup



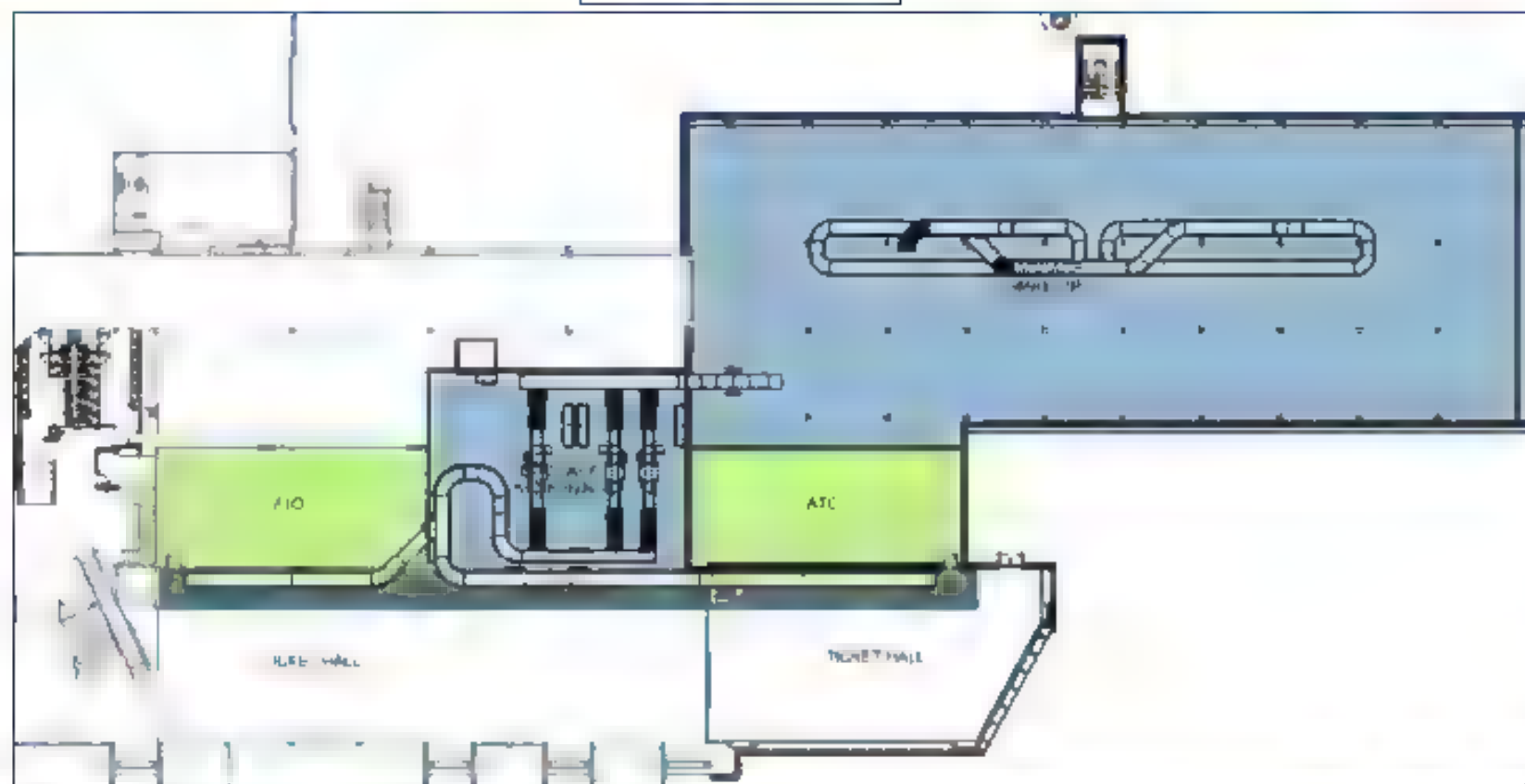
Existing



The Solution – Baggage Makeup



Proposed



Funding Considerations

- **Terminal Costs: \$124M**

Terminal Building/Apron/ Ground Parking Exp.

- **Federal Funding: \$51.3M**

Passenger Elements/BIL AIG \$22.1M

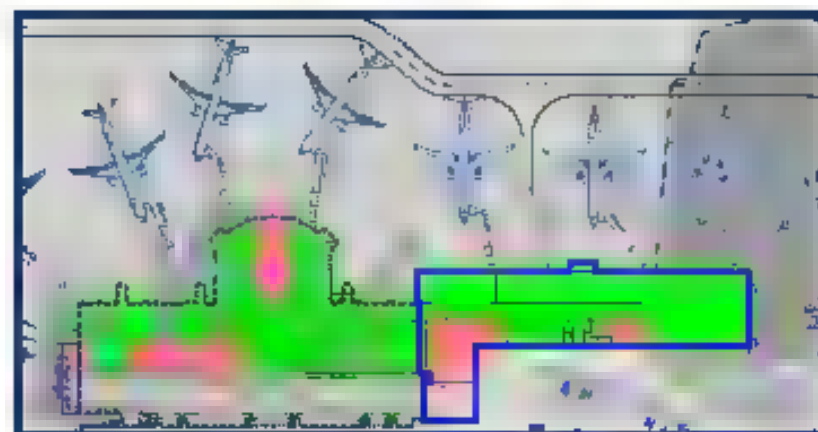
- AIP Discretionary for Apron (Competitive) \$9.2M
- BIL ATP (Competitive) - \$20M

- **State Funding: \$44.3M**

- ND Aeronautics - \$4.3M
- Direct Allocation - \$40M

- **Local - \$28.4M**

PFC/Cash Reserves - \$23.4M



DESIGN UPDATE

14

WHERE DESIGN STARTED

→ Public input session, Dec 2022

DESCRIBE FARGO

down town opportunity
resilient growing relaxed
welcoming
friendly
community
growth
education bison learning
nice opportunities

TOP AMENITIES

Comfortable Seating
biophilic
Greenspace
Food
shopping

DESCRIBE NEW TERMINAL

Iconic
Dynamic
Colorful

TOP DESIGN PRIORITIES

photogenic
Beautiful
Regional
recognizable

EXTERIOR

14



Mead
| lunt





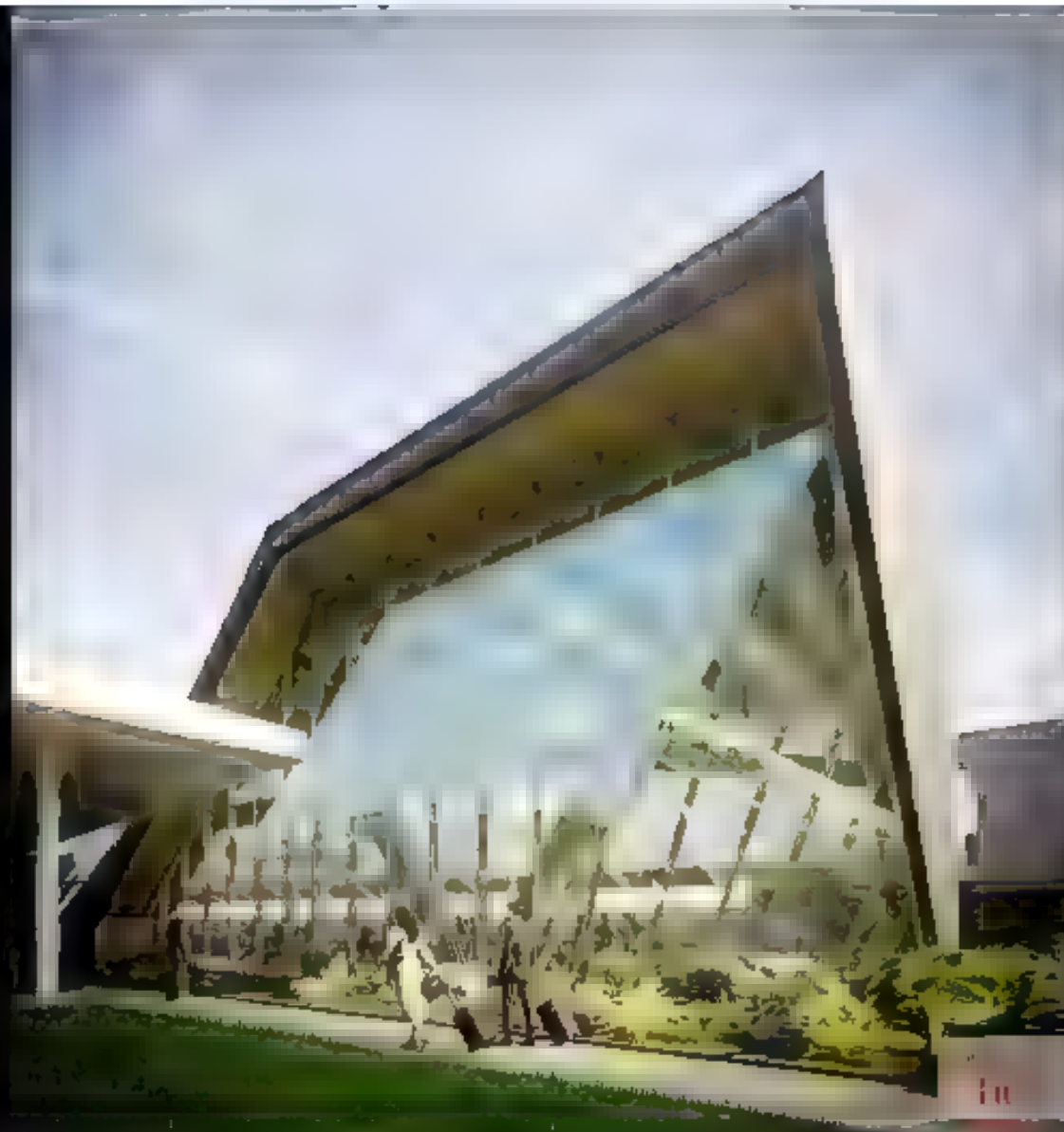
Meat
Hunt







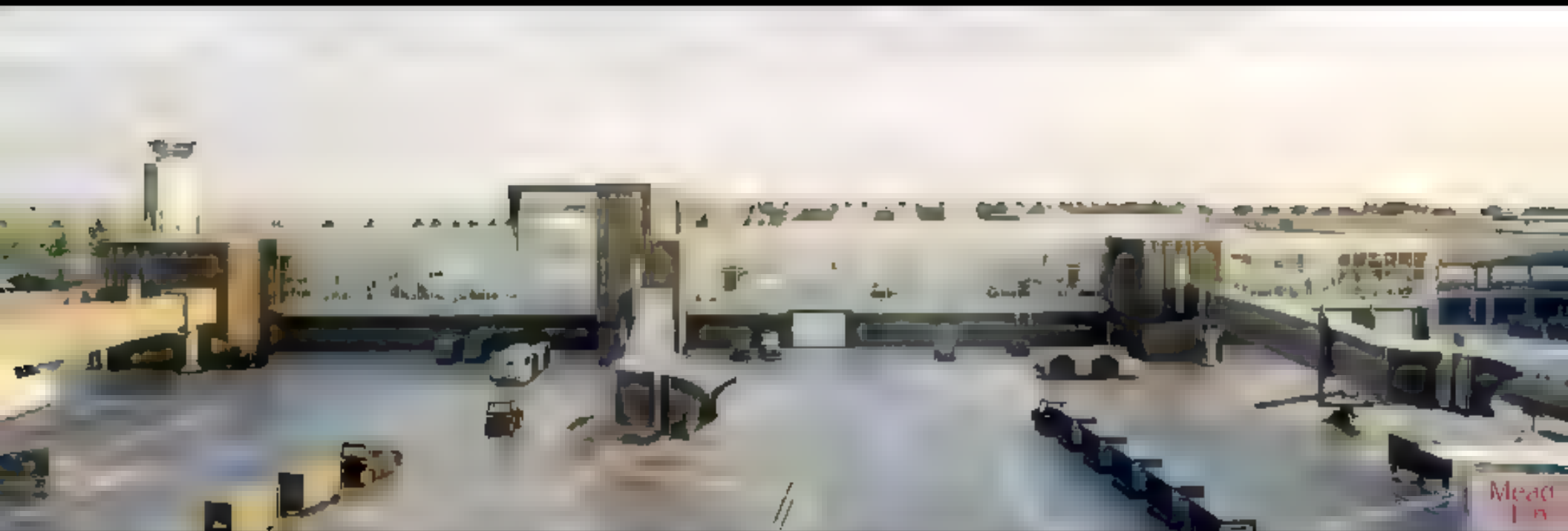
Mead
| Hunt







Mead
| lunt

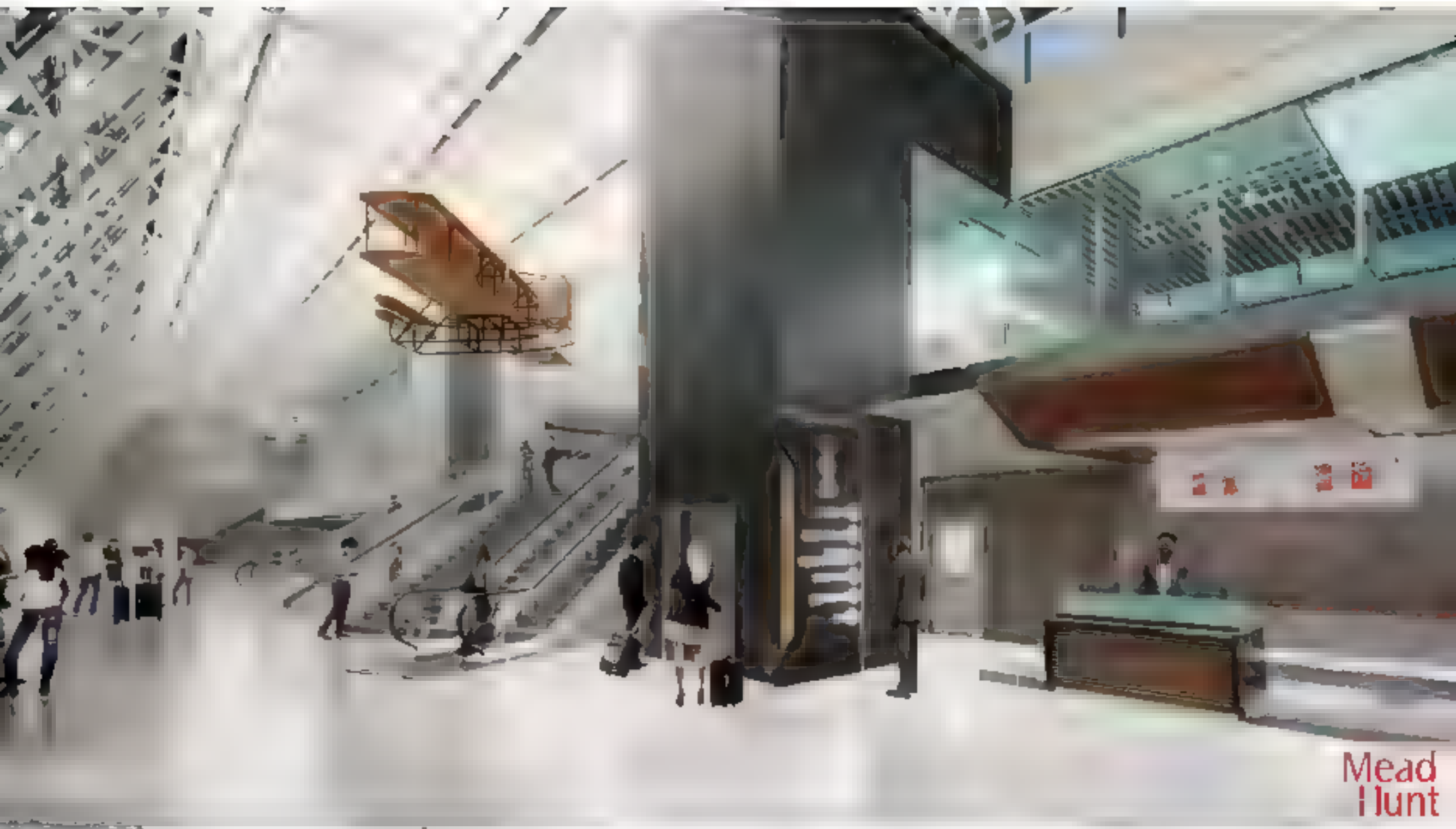


INTERIOR

14

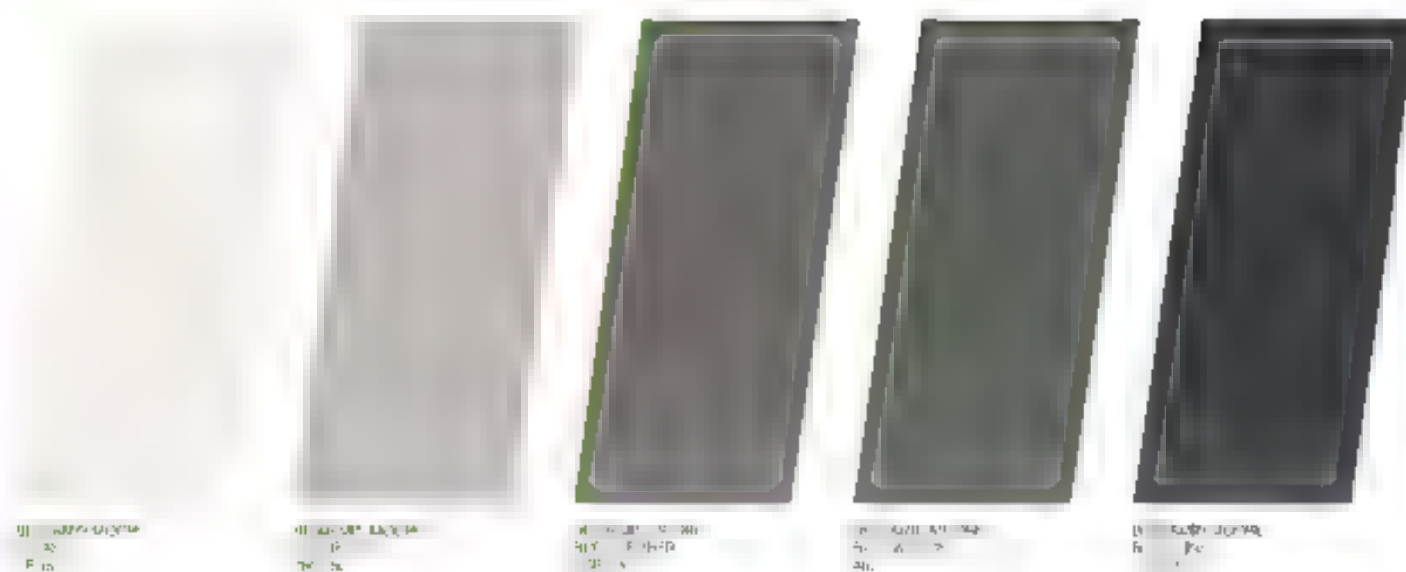






Mead
Hunt

INTERIOR



FINISHES



CORP 1 MIL IPEN ORCA



CORP 1 MIL IPEN ORCA



ALPINE 1 MIL IPEN ORCA



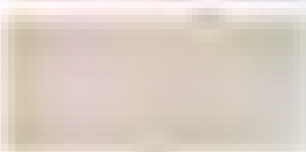
ALPINE 1 MIL IPEN ORCA



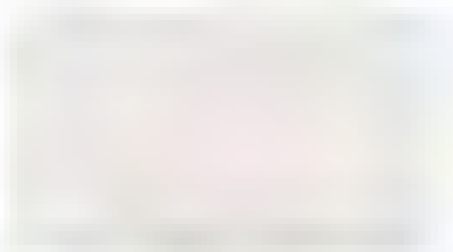
ALPINE 1 MIL IPEN ORCA



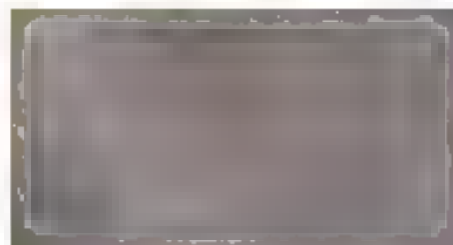
ALPINE 1 MIL IPEN ORCA



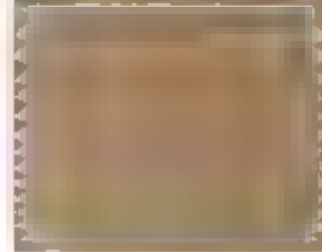
ALPINE 1 MIL IPEN ORCA



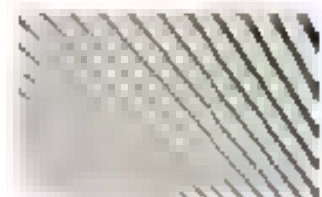
ALPINE 1 MIL IPEN ORCA



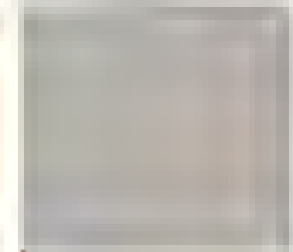
ALPINE 1 MIL IPEN ORCA



ALPINE 1 MIL IPEN ORCA



ALPINE 1 MIL IPEN ORCA



ALPINE 1 MIL IPEN ORCA



ALPINE 1 MIL IPEN ORCA



FURNITURE

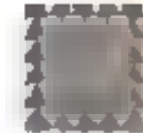


ARCONAS PLACE TANDEM SEATING



LAVIRA
SANJULITE

ARCONAS-EMBARO



901 31 R
ARCONA GLYPH



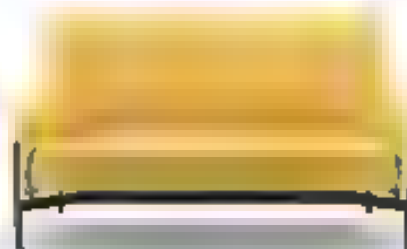
ARCONAS SURGE POWER STATION



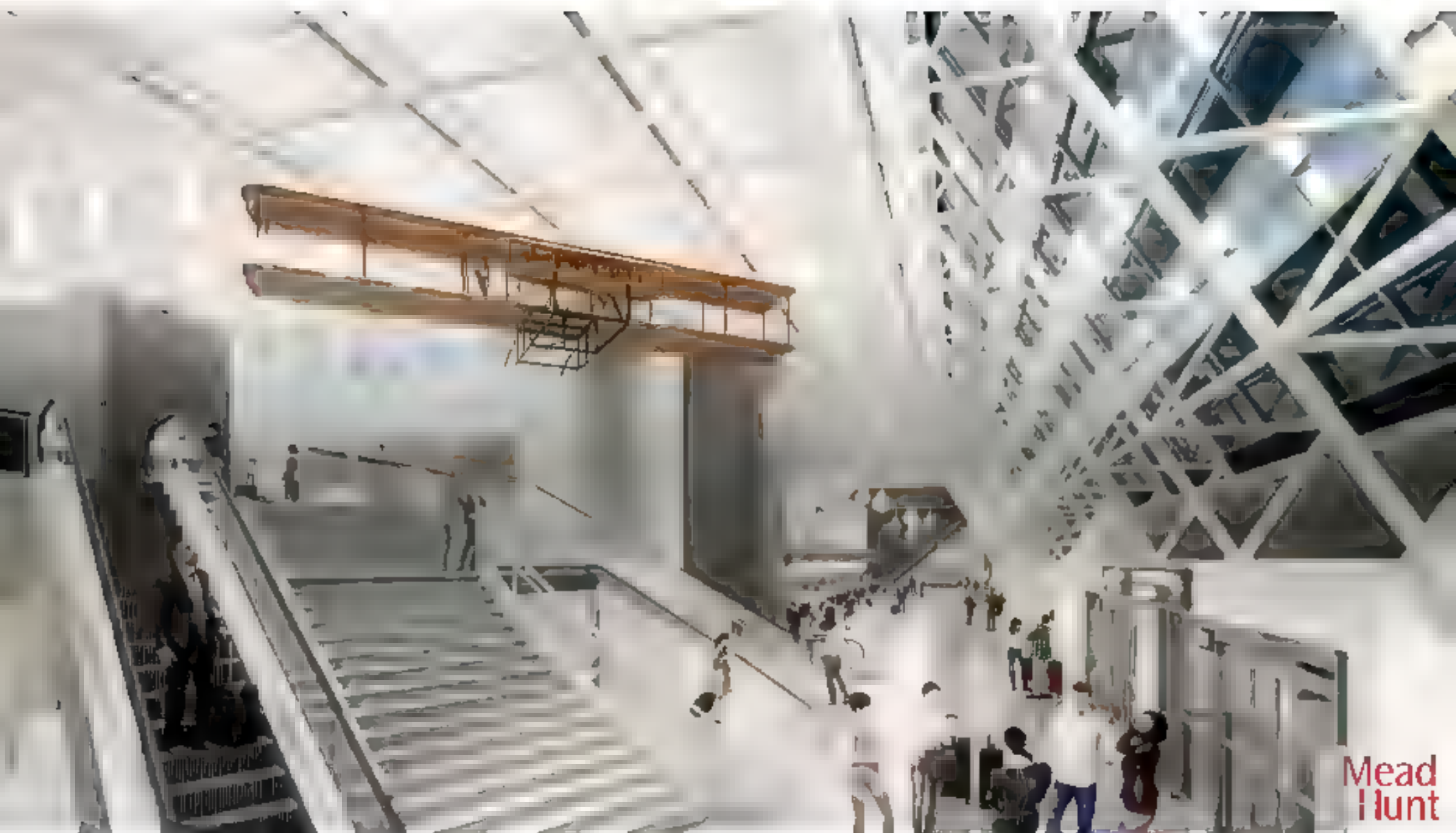
MA-1 e
WEL 1115, 1116, 1117

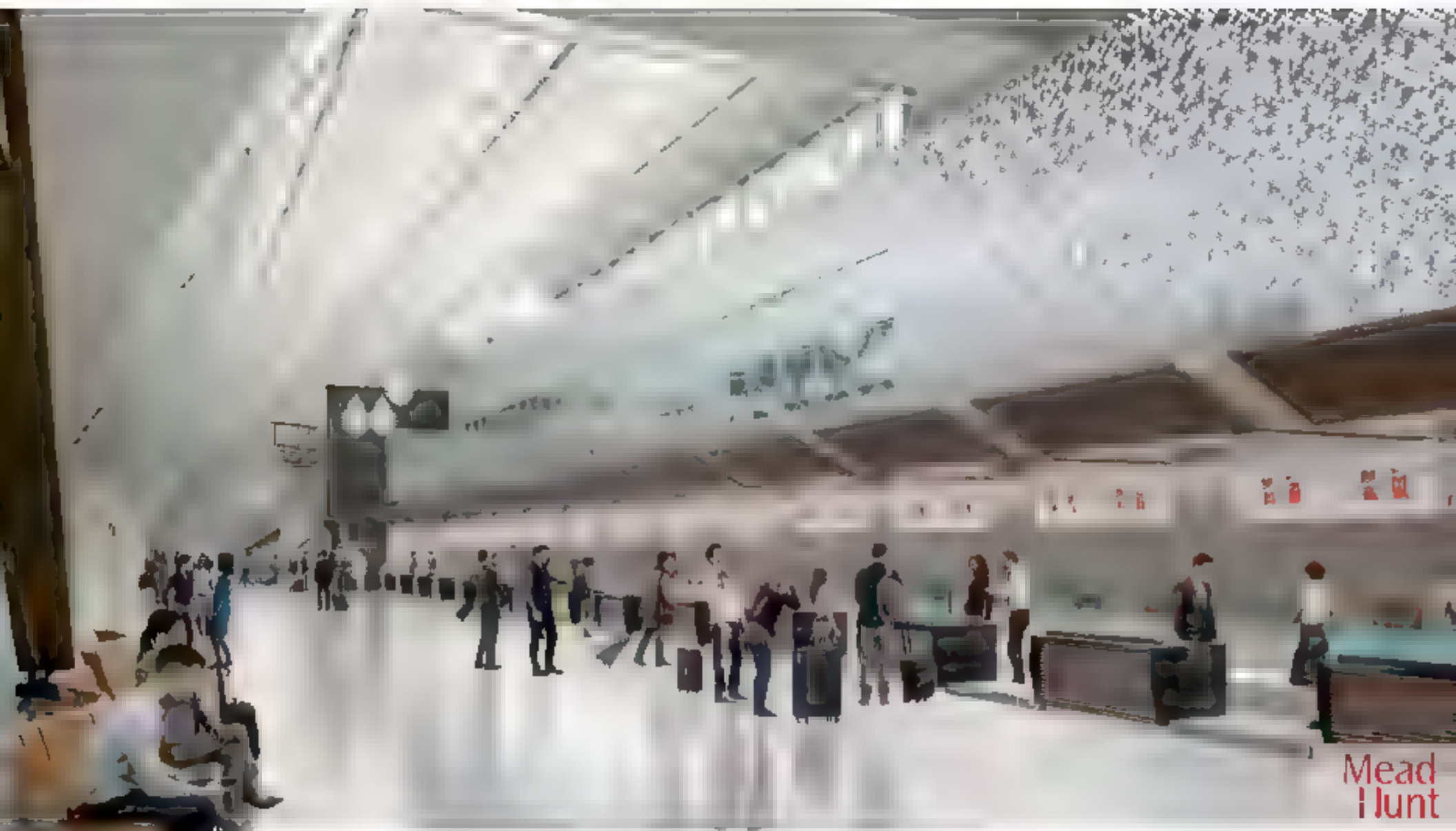


ARCONAS SUPERHERO



ARCONAS ASCENT BENCH

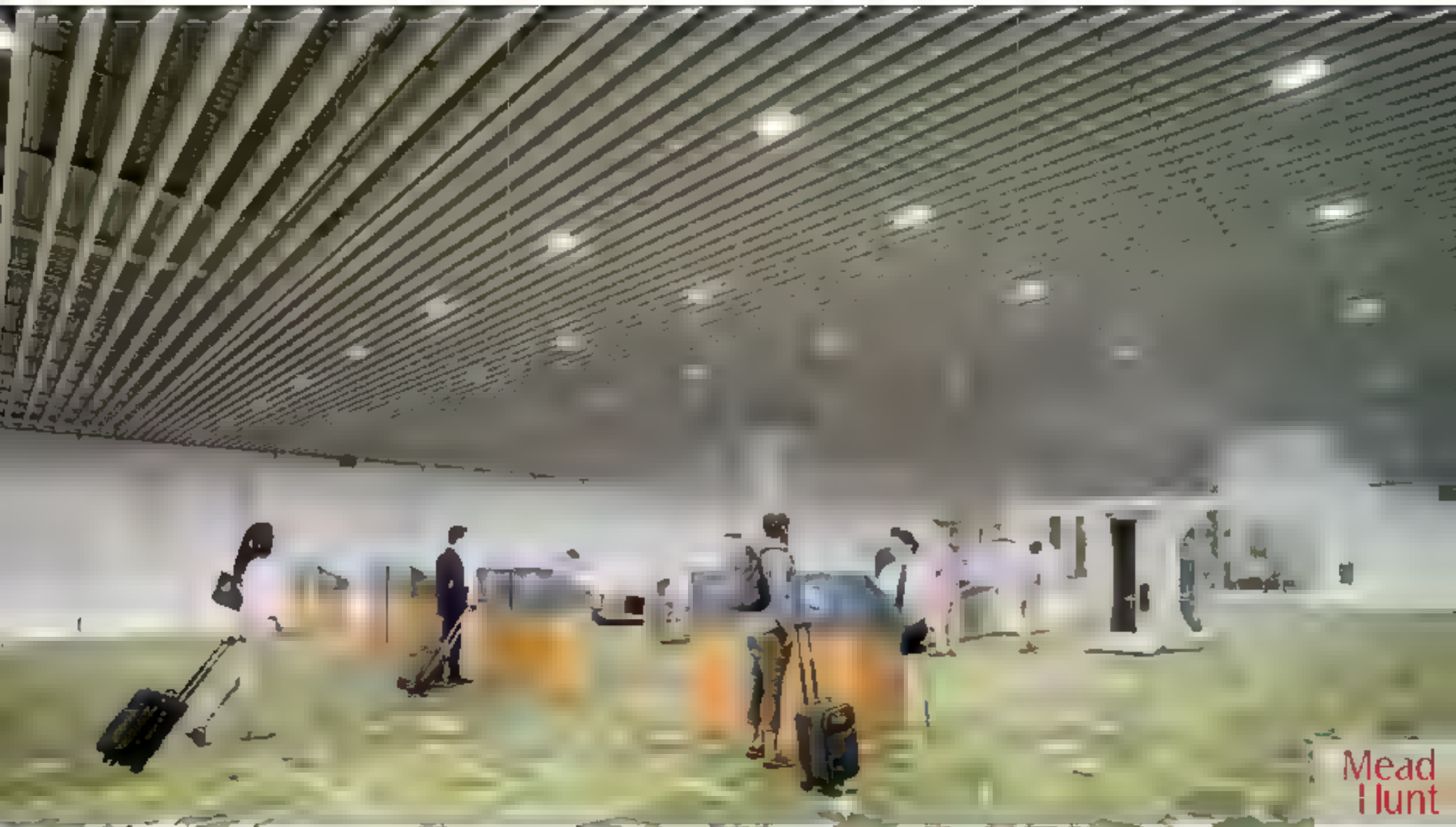




Mead
Hunt

SECURITY CHECK - POINT COMPOSURE AREA

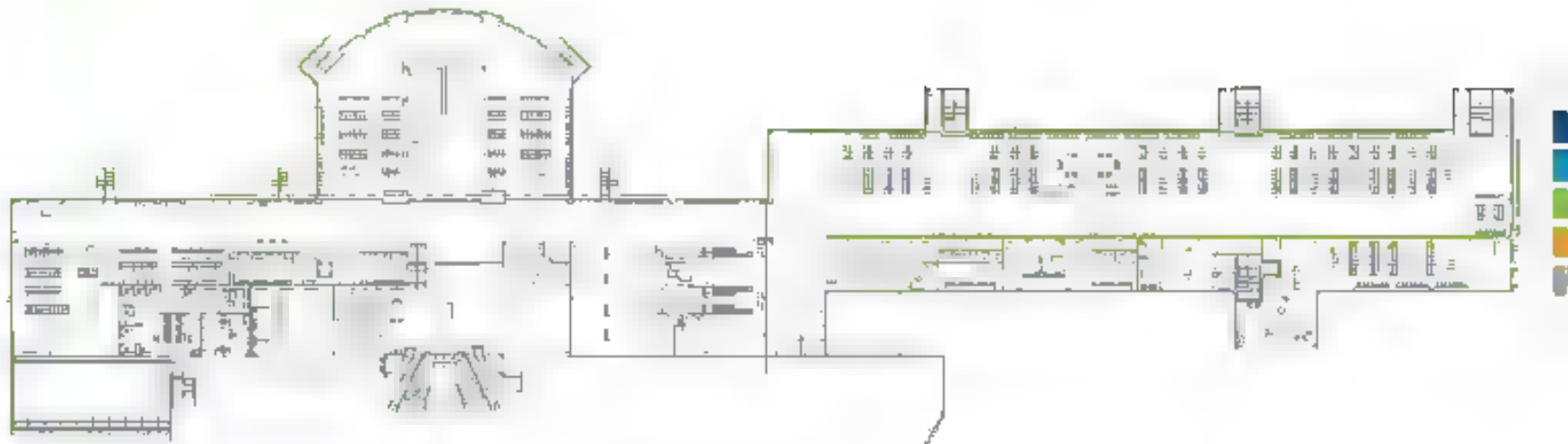




Mead
Hunt



EXPANSION







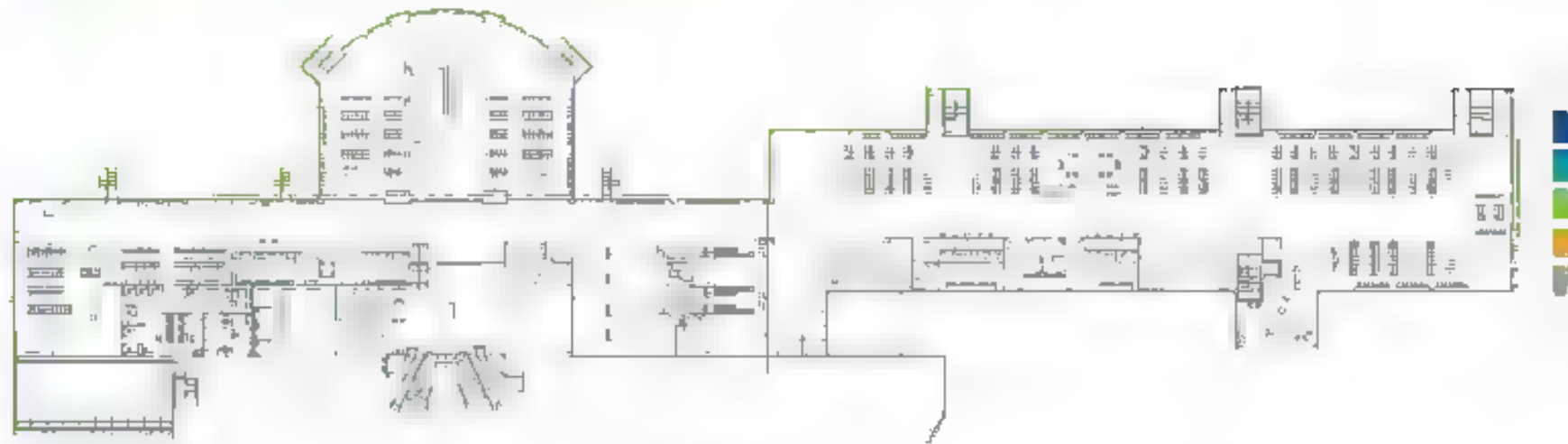
Mead
| lunt



Mead
Hunt



COMFORT ROOMS







SENSORY ROOM



PLAY AREA

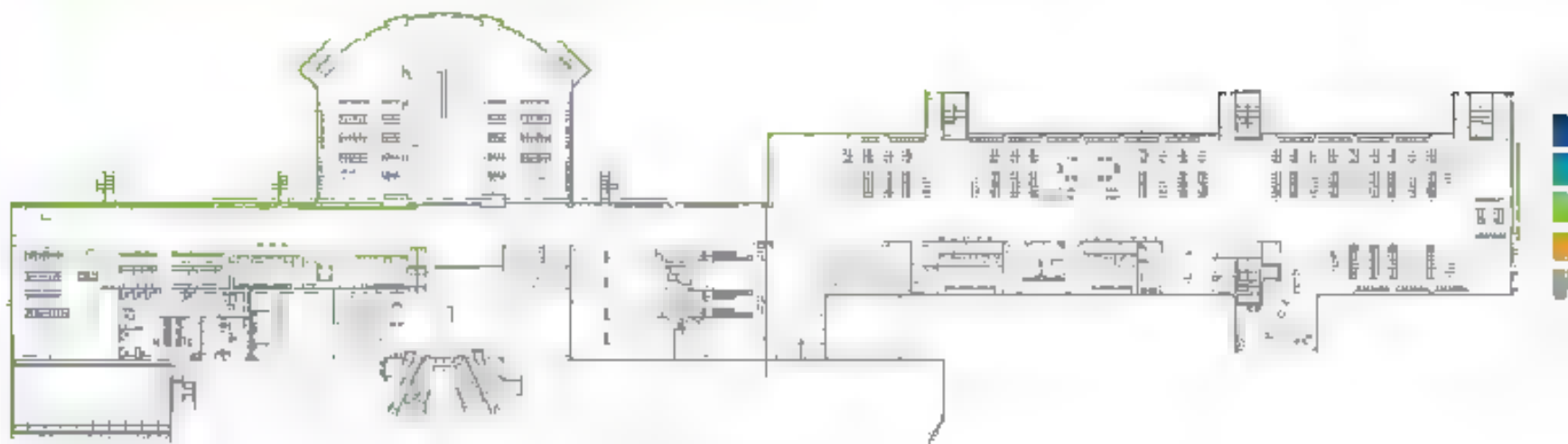


NURTURING ROOM



SARP

EXISTING GATES





Mead
Hunt





Mead
Hunt

NEXT STEPS

- ➔ INTERIORS- WORKING WITH LOCAL PARTNERS TO FURTHER DEVELOP AREAS WITHIN THE TERMINAL SUCH AS ARTWORKS, SENSORY RX AND ADVERTISING
- ➔ DETAILING DESIGN TO CONSTRUCTABLE MEASURES
- ➔ EVALUATING MATERIAL LEAD TIMES AND EXPLORE EARLY PROCUREMENT TO SUPPORT A SPRING 2024 CONSTRUCTION START

Mead
& Hunt

